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\*  
\* Report Name: DATERAS  
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\*  
\* Date: 26-Mar-1982  
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\*  
\* Time: 11:25:02  
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\*  
\* Job Number: 00897  
\*  
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\*  
\* Location Name: #DEFAULT.PRN1  
\*  
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\* Report Name: DATBAS

\* Date: 26-Mar-1982

\* Time: 11:25:02

\* Job Number: 00897

\* Location Name: #DEFAULT\_PRN1

ENR LINTC ALDRG D1 D2 D3 D4

SHEET154 EQUATES

PAGE 1

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LIST S  
TITLE SWEET154 DATA BASE  
NLIST A  
NAME DATBAS  
XDEF CABINI, RAMLO, TRAMEZ, TSDAT  
XDEF WMMET, BOOT7, DOVECT, DOBINI, APPMIL  
XDEF JNIZHS, POKMSK, DRKKEY, RICLOK, DUFAUR  
XDEF ICCOM1, DEKFMS, DSKUTL, PTIMOT, PDMT  
XDEF POUFBZ, ZIOMH, IDCRAZ, ICHIDZ  
XDEF TCDNOZ, ICCOM2, ICSTATZ, ICBALZ, ICBHZ  
XDEF ICPTLZ, ICPTHZ, ICBLLZ, ICBLHZ, TCAX1Z  
XDEF ICAX2Z, ICSPRZ, ENTEC, ICIDNO, CIOCHH  
XDEF STATUS, CHKSUM, BUFRLO, BUFRHI, BRENLO  
XDEF BRENHI, CTRY, DRETRY, BUFRFL, RECDN  
XDEF XMTDIN, CHKSNT, NOCKSM, RPTF, FTYPE  
XDEF FEDF, FREQ, BOUNDR, CRITIC, FM9ZP0  
XDEF CKFY, CASSBT, DSTAT, ATTRACT, DRKMSK  
XDEF GOLRSH, TMPCHR, HOLD1, LMARQN, RMARQN  
XDEF ROWCRS, COLCRS, DINDEX, SAVMSC, OLDRDW  
XDEF OLDCOL, OLDCHR, OLDDADR, NEWROW, NEWCOL  
XDEF LOGCOL, ADDRESS, MLTTMP, OPNTMP, TOADR  
XDEF SAVADR, FRMADR, RANTOP, BUCNT, BUFCNT  
XDEF BLMMSK, SHFAMT, ROWAC, COLAC, ENDPT  
XDEF DELTAR, DELTAC, ROWINC, COLINC, SWFLG  
XDEF HOLUCH, INSDAT, COUNTR, INTABS, VDSLIST  
XDEF VPRCED, VINTER, VBREAK, VKEYBD, VSERIN  
XDEF VSEROR, VSEROC, VTIMR1, VTIMR2, VTIMR4  
XDEF VIMIRO, CDTMV1, CDTMV2, CDTMV3, CDTMV4  
XDEF CDTMV3, VVBLKI, VVBLKD, CDTMA1, CDTMA2  
XDEF CDTMF3, SRTIMR, CDTMF4, INTEMP, CDTMF5  
XDEF SDMCTL, SDLSTL, SDLSTH, SSKCTL, LPENH  
XDEF LPENV, BRKKY, CDEVIC, CCOMND, CAUX1  
XDEF CAUX2, TEMP, ERRFLG, DFLASG, DFLSCL  
XDEF BOOTAD, COLDST, DSKTIN, LNBUS, APRIOR  
XDEF PADDLO, PADDL1, PADDL2, PADDL3, PADDL4  
XDEF PADDL5, PADDL6, PADDL7, STICK0, STICK1  
XDEF STICK2, STICK3, PTR1Q0, PTR1Q1, PTR1Q2  
XDEF PTR1Q3, PTR1Q4, PTR1Q5, PTR1Q6, PTR1Q7  
XDEF STRICO, STRIG1, STRIG2, STR1Q3  
XDEF WHDDE, BLIM, IMASK1, VECX1, TXTRW  
XDEF TXTCOL, TINDEX, TXIMSC, TXTOLD  
XDEF HOLDJ, SUTMP, HOLDZ, DMASH, TMPLB1  
XDEF ESFLG, TADMAP, LOGMAP, INVFLG, FILFLG  
XDEF TMRROW, TMPCOL, SCRFLG, HOLD4  
XDEF SHFLOK, P01SCR, PCOLR0, PCOLR1, PCOLR2  
XDEF PCOLR3, COLDK0, COLOR1, COLOR2, COLOR3  
XDEF COLOR4, RANE1Z, MEMTOP, MEMLO  
XDEF DVSTAT, CBAUDL, CBAUDH, CRSENH, KEYSEL  
XDEF CHI, CHACT, CHIAS, CHAR, ATACHR  
XDEF CHI, FILDAT, DSPPFLG, SSFLAG, DCB  
XDEF DDEVTC, DUNIT, DCOMND, DBSTATS, DPUFLG  
XDEF DPUFLH, DTIML0, DUNUSE, DRYTLD, DBYTHI  
XDEF DAVNL, DAUX2, TIMER1, CAFL0

ERR LINE ADDR B1 B2 B3 B4

SHEET16 DATA BASE

PAGE

2

475 XDEF TIMER2, TEMP1, TEMP3, SAVIO  
476 XDEF TIMFLG, STACKP, TSTAT, HATABS, ICBB  
477 XDEF ICHID, ICDNO, ICCOM, ICSTA, ICBAL  
478 XDEF ICBAH, ICPTL, ICPTH, ICBLL, ICBLH  
479 XDEF ICAX1, ICAX2, ICSPR, PRNBUF, CASBUF  
480 XDEF USAREA, ABUFPT, PALNTS, JMPERS  
481 XDEF LCOUNT, RELADR, RECLEN, HIBYTE  
482 XDEF NEWADR, RUNADR, HIUSED, ZHIUSE  
483 XDEF GBYTEA, LOADAD, ZLOADA, LTEMP  
484 XDEF DSCTLN, ACMISR, KRPDEL, KEYREP  
485 XDEF NOCLIK, HELPPG, DMASAV, LNFLG  
486 XDEF PARMBL, OLDPAR, KEYDEF, FKDEF  
487 XDEF ZCHAIN, HNDLDD, TEMP2, CHLINK  
488 XDEF GINTLK, MINTLK, ACMVAR, SUPERF  
489 XDEF PUPBT1, PUPBT2, PUPBT3, NGFLAG  
490 XDEF VSFLAG, KEYDIS, FINE

492 ASCT  
493 PAGE ZERO RAM ASSIGNMENTS  
494

495 \*= \$0000

496 0000 LNFLAG RES 1  
497 0001 NGFLAG RES 1 ; 1 = MEMORY O K, 0 = FAILURE

498 ; THESE LOCATIONS ARE NOT CLEARED

500 0002 CASINI RES 2 ; CASSETTE INIT LOCATION  
501 0004 RAMLO RES 2 ; RAM POINTER FOR MEMORY TEST  
502 0006 TRAMSZ RES 1 ; TEMPORARY REGISTER FOR RAM SIZE  
503 0007 TSTDAT RES 1 ; RAM TEST DATA REGISTER

504 ; CLEARED ON COLDSTART ONLY

506 0008 WARMST RES 1 ; WARM START FLAG  
507 0009 BOOT? RES 1 ; SUCCESSFUL BOOT FLAG  
508 000A DOSVEC RES 2 ; DISK SOFTWARE START VECTOR  
509 000C DOSINI RES 2 ; DISK SOFTWARE INIT ADDRESS  
510 000E APPMHI RES 2 ; APPLICATIONS MEMORY HI LIMIT

511 ;

512 ; CLEARED ON COLD OR WARM START

513 0010 INTZBS =\* ; INTERRUPT HANDLER  
514 0010 POKMSK RES 1 ; SYSTEM MASK FOR POKEY IRQ ENABLE  
515 0011 BRKKEY RES 1 ; BREAK KEY FLAG  
516 0012 RTCLOCK RES 3 ; REAL TIME CLOCK (IN 16 MSEC UNITS)

517 ;

518 0015 BUFADR RES 2 ; INDIRECT BUFFER ADDRESS REGISTER

519 ;

520 0017 ICCOMT RES 1 ; COMMAND FOR VECTOR

521 ;

522 0018 DSKFMS RES 2 ; DISK FILE MANAGER POINTER

523 001A DSKUTL RES 2 ; DISK UTILITIES POINTER

524 ;

525 001C ABUFPT RES 4 ; ACM1 BUFFER POINTER VARIABLES

526 ;

527 0020 ZIOCB =\* ; ZERO PAGE I/O CONTROL BLOCK

528 0020 IOCBA5 =\*

ERR LINE ADDR B1 B2 B3 B4

SWEET16 DATA BASE

PAGE 3

529 0020	ICHIDE	RES	1	HANDLER INDEX NUMBER (FF = IOCB FREE)
530 0021	ICDN0Z	RES	1	DEVICE NUMBER (DRIVE NUMBER)
531 0022	ICCOMZ	RES	1	COMMAND CODE
532 0023	ICSTAZ	RES	1	STATUS OF LAST IOC <sub>1</sub> ACTION
533 0024	ICBALZ	RES	1	BUFFER ADDRESS LOW BYTE
534 0025	ICBAHZ	RES	1	
535 0026	ICPTLZ	RES	1	PUT BYTE ROUTINE ADDRESS - 1
536 0027	ICPTHZ	RES	1	
537 0028	ICBLLZ	RES	1	BUFFER LENGTH LOW BYTE
538 0029	ICBLHZ	RES	1	
539 002A	ICAX1Z	RES	1	AUXILIARY INFORMATION FIRST BYTE
540 002B	ICAX2Z	RES	1	
541 002C	ICSPRZ	RES	4	TWO SPARE BYTES (CIO LOCAL USE)
542 002C	ENTVEC	=	ICSPRZ+0	
543 002E	ICIDNO	=	ICSPRZ+2	IOCB NUMBER X 16
544 002F	GI0CHR	=	ICSPRZ+3	CHARACTER BYTE FOR CURRENT OPERATION
545	,			
546 0030	BTSTATUS	RES	1	INTERNAL STATUS STORAGE
547 0031	CHKSUM	RES	1	CHECKSUM (SINGLE BYTE SUM WITH CARRY)
548 0032	BUFRLO	RES	1	POINTER TO DATA BUFFER (LO BYTE)
549 0033	BUFRHI	RES	1	POINTER TO DATA BUFFER (HI BYTE)
550 0034	BFENLO	RES	1	NEXT BYTE PAST END OF THE DATA BUFFER (LO B)
551 0035	BFENHI	RES	1	NEXT BYTE PAST END OF THE DATA BUFFER (HI B)
552 0036	LTEMP	RES	2	RELOCATING LOADER TEMPORARY
553 0038	BUFRFL	RES	1	DATA BUFFER FULL FLAG
554 0039	RECDVN	RES	1	RECEIVE DONE FLAG
555 003A	XMTDN	RES	1	TRANSMIT DONE FLAG
556 003B	CHKSNT	RES	1	CHECKSUM SENT FLAG
557 003C	NOCKSM	RES	1	NO CHECKSUM FOLLOWS DATA
558	,			
559	,			
560 003D	BPTR	RES	1	
561 003E	FTYPE	RES	1	
562 003F	FE0F	RES	1	
563 0040	FREQ	RES	1	
564 0041	SOUNDR	RES	1	NOISY I/O FLAG (ZERO IS QUIET)
565 0042	CRITIC	RES	1	DEFINES CRITICAL SECTION (CRITICAL IF NON-Z)
566	,			
567 0043	FMSZPG	RES	7	DISK FILE MANAGER SYSTEM ZERO PAGE
568	,			
569	,			
570 004A	ZCHAIN	RES	2	
571 004C	DSTAT	RES	1	DISPLAY STATUS
572	,			
573 004D	ATRACT	RES	1	ATRACT FLAG
574 004E	DRKMSK	RES	1	DARK ATTRACT MASK
575 004F	COLRSH	RES	1	ATRACT COLOR SHIFTER (EOR'ED WITH PLAYFIELD)
576	,			
577 0050	TMPCHR	RES	1	
578 0051	HOLD1	RES	1	
579 0052	LMARGN	RES	1	LEFT MARGIN (SET TO 2 AT POWER ON)
580 0053	RMARGN	RES	1	RIGHT MARGIN (SET TO 39 AT POWER ON)
581 0054	ROWCRS	RES	1	CURSOR COUNTERS
582 0055	COLCRS	RES	2	

ERR LINE ADDR B1 B2 B3 B4

SWEET16 DATA BASE

PAGE 4

583 0057	DINDEX	RES	1	
584 0058	SAVMSI	RES	2	
585 005A	OLDRDW	RES	1	
586 005B	ULDCOL	RES	2	
587 005D	ULDCHR	RES	1	DATA UNDER CURSOR
588 005E	OLDAADR	RES	2	
589 0060	FKDEF	RES	2	
590 0062	PALNTS	RES	1	POINTER TO FUNCTION KEY DEF TABLE
591 0063	LOGCOL	RES	1	0 = NTSC, 1 = PAL
592 0064	ADRESS	RES	2	POINTS AT COLUMN IN LOGICAL LINE
593 0066	MLTTMP	RES	2	
594 0066	OPNTMP	MLTTMP		FIRST BYTE IS USED IN OPEN AS TEMP
595 0066	TOADR	MLTTMP		
596 006B	SAVADR	RES	2	
597 006B	FRMADR	SAVADR		
598 006A	RAMTOP	RES	1	RAM SIZE DEFINED BY POWER ON LOGIC
599 006B	BUFCNT	RES	1	BUFFER COUNT
600 006C	BUFSTR	RES	2	EDITOR GETCH POINTER
601 006E	BITMSK	RES	1	BIT MASK
602 006F	EHFAMT	RES	1	
603 0070	ROWAC	RES	2	
604 0072	COLAC	RES	2	
605 0074	ENDPT	RES	2	
606 0076	DELTAR	RES	1	
607 0077	DELTAC	RES	2	
608 0079	KEYDEF	RES	2	POINTER TO KEY DEF TABLE
609 007B	SWPFLG	RES	1	
610 007C	HOLDCH	RES	1	NON-0 IF TXT AND REGULAR RAM IS SWAPPED
611 007D	INSDAT	RES	1	CH IS MOVED HERE IN KGETCH BEFORE CNTL & SH
612 007E	COUNTR	RES	2	
613				
614				
615				
616				
617				80 - FF ARE RESERVED FOR USER APPLICATIONS
618				
619				
620				
621				
622				NOTE : SEE FLOATING POINT SUBROUTINE AREA FOR ZERO PAGE CELLS
623				
624				
625				
626				
627				
628				
629				
630				
631				
632				
633				
634				
635				
636 0200	INTABE	**\$0200		INTERRUPT RAM

PAGE 1 - STACK

PAGE TWO RAM ASSIGNMENTS

ABCT

\*\*\$0200

INTERRUPT RAM

ERR LINE ADDR B1 B2 B3 B4

SWEET16 DATA BASE

PAGE 5

627 0200	VDSLET	RES	2	;DISPLAY LIST NMI VECTOR
638 0202	VFRGEO	RES	2	;PROCEED LINE IRQ VECTOR
639 0204	VINTER	RES	2	;INTERRUPT LINE IRQ VECTOR
640 0206	VREAK	RES	2	;SOFTWARE BREAK (00) INSTRUCTION IRQ VECTOR
641 0208	VKEYBD	RES	2	;POKEY KEYBOARD IRQ VECTOR
642 020A	VSERIN	RES	2	;POKEY SERIAL INPUT READY IRQ
643 020C	VSEROR	RES	2	;POKEY SERIAL OUTPUT READY IRQ
644 020E	VSEROC	RES	2	;POKEY SERIAL OUTPUT COMPLETE IRQ
645 0210	VTIMR1	RES	2	;POKEY TIMER 1 IRQ
646 0212	VTIMR2	RES	2	;POKEY TIMER 2 IRQ
647 0214	VTIMR4	RES	2	;POKEY TIMER 4 IRQ
648 0216	VIMIRQ	RES	2	;IMMEDIATE IRQ VECTOR
649 0218	CDTMV1	RES	2	;COUNT DOWN TIMER 1
650 021A	CDTMV2	RES	2	;COUNT DOWN TIMER2
651 021C	CDTMV3	RES	2	;COUNT DOWN TIMER 3
652 021E	CDTMV4	RES	2	;COUNT DOWN TIMER 4
653 0220	CDTMV5	RES	2	;COUNT DOWN TIMER 5
654 0222	VVBLKI	RES	2	;IMMEDIATE VERTICAL BLANK NMI VECTOR
655 0224	VVBLKD	RES	2	;DEFERRED VERTICAL BLANK NMI VECTOR
656 0226	CDTMA1	RES	2	;COUNT DOWN TIMER 1 JSR ADDRESS
657 0228	CDTMA2	RES	2	;COUNT DOWN TIMER 2 JSR ADDRESS
658 022A	CDTMF3	RES	1	;COUNT DOWN TIMER 3 FLAG
659 022B	SRTIMR	RES	1	;SOFTWARE REPEAT TIMER
660 022C	CDTMF4	RES	1	;COUNT DOWN TIMER 4 FLAG
661 022D	INTEMP	RES	1	;IAN'S TEMP (RENAME FROM T1 BY POPULAR DEMA
662 022E	CDTMF5	RES	1	;COUNT DOWN TIMER FLAG 5
663 022F	SDMCTL	RES	1	;SAVE DMACTL REGISTER
664 0230	SDLSTL	RES	1	;SAVE DISPLAY LIST LOW BYTE
665 0231	SDLSTH	RES	1	;SAVE DISPLAY LIST HI BYTE
666 0232	SSKCTL	RES	1	;SKCTL REGISTER RAM
667 0233	LCOUNT	RES	1	;LOADER RECORD LENGTH COUNTER
668				;
669 0234	LPENH	RES	1	;LIGHT PEN HORIZONTAL VALUE
670 0235	LPENV	RES	1	;LIGHT PEN VERTICAL VALUE
671 0236	BRKKY	RES	2	;BREAK KEY VECTOR
672				;
673 0238	RELADR	RES	2	;LOADER ADDRESS VARIABLE.
674				;
675 023A	CDEVIC	RES	1	;COMMAND FRAME BUFFER - DEVICE
676 023B	CCOMND	RES	1	;COMMAND
677 023C	CAUX1	RES	1	;COMMAND AUX BYTE 1
678 023D	CAUX2	RES	1	;COMMAND AUX BYTE 2
679				; NOTE: MAY NOT BE THE LAST WORD ON A PAGE
680 023E	TEMP	RES	1	;TEMPORARY RAM CELL
681				; NOTE: MAY NOT BE THE LAST WORD ON A PAGE
682 023F	ERRFLG	RES	1	;ERROR FLAG - ANY DEVICE ERROR EXCEPT TIME 0
683				;
684 0240	DFLAGS	RES	1	;DISK FLAGS FROM SECTOR ONE
685 0241	DBSECT	RES	1	;NUMBER OF DISK BOOT SECTORS
686 0242	BOOTAD	RES	2	;ADDRESS WHERE DISK BOOT LOADER WILL BE PUT
687 0244	COLDST	RES	1	;COLDSTART FLAG (1=IN MIDDLE OF COLDSTART)
688				;
689 0245	RECLEN	RES	1	;LOADER RECORD LENGTH
690				;

ERR LINE 400R D1 D2 D3 D4

## SWEET16 DATA BASE

691	0245	DESKTIM	RES	1	/DISK TIME OUT REGISTER
692					
693	0247	LINBUF	RES	40-37	/CHAR LINE BUFFER *** SPARES ***
694					
695	025F	GPRIOR	RES	1	/GLOBAL PRIORITY CELL
696					
697	0270	PADDL0	RES	1	/POTENTIOMETER 0 RAM CELL
698	0271	PADDL1	RES	1	
699	0272	PADDL2	RES	1	
700	0273	PADDL3	RES	1	
701	0274	PADDL4	RES	1	
702	0275	PADDL5	RES	1	
703	0276	PADDL6	RES	1	
704	0277	PADDL7	RES	1	
705	0278	STICK0	RES	1	/JOYSTICK 0 RAM CELL
706	0279	STICK1	RES	1	
707	027A	STICK2	RES	1	
708	027B	STICK3	RES	1	
709	027C	PTRIG0	RES	1	/PADDLE TRIGGER 0
710	027D	PTRIG1	RES	1	
711	027E	PTRIG2	RES	1	
712	027F	PTRIG3	RES	1	
713	0280	PTRIG4	RES	1	
714	0281	PTRIG5	RES	1	
715	0282	PTRIG6	RES	1	
716	0283	PTRIG7	RES	1	
717	0284	STRIG0	RES	1	/JOYSTICK TRIGGER 0
718	0285	STRIG1	RES	1	
719	0286	STRIG2	RES	1	
720	0287	STRIG3	RES	1	
721					
722	0288	HIBYTE	RES	1	/LOADER HIGH BYTE VALUE.
723	0289	WMODE	RES	1	
724	028A	BLIM	RES	1	
725	028B	IMASK	RES	1	
726	028C	JVECK	RES	2	
727					
728	028E	NEWADR	RES	2	/LOADER ADDRESS VARIABLE
729					
730					
731					
732					
733	0290	TXTROW	RES	1	TEXT ROWCRS
734	0291	TXTCOL	RES	2	TEXT COLCRS
735	0292	TINDEX	RES	1	TEXT INDEX
736	0294	TXTMSC	RES	2	FOOLS CONVRT INTO NEW MSC
737	0296	TXTOLD	RES	6	OLDROW, OLDCOL, OLDCHR % OLDAADR FOR TEXT.
738	029C	CRETRY	RES	1	# OF COMMAND FRAME RETRIES
739	029D	HOLD3	RES	1	
740	029E	SUBTMP	RES	1	
741	029F	HOLD2	RES	1	
742	02A0	QMASK	RES	1	
743	02A1	TMPLBT	RES	1	
744	02A2	ESCFLG	RES	1	/ESCAPE FLAG

PAGE 6

VSFLAG: .RES 1 ; FINE VERTICAL SCROLL COLOR.  
 KEYDIS: .RES 1 ; KEYBOARD DISABLE.  
 FINE: .RES 1 ; FINE SCROLLING MODE.

ERR LINE	ADDR	B1	B2	B3	B4	SWEET16 DATA BASE	PAGE
745	02A3					TABMAP. RES 1	7
746	02B0					LOGMAP. RES 4	
747	02B6					INVFLG. RES 1	
748	02B7					FILFLG. RES 1	
749	02B8					TMPROW. RES 1	
750	02B9					TMPCOL. RES 2	
751	02B8					SCRFLG. RES 1	
752	02B0					HOLD4. RES 1	
753	02BD					DRETRY. RES 1	
754	02BE					SHFLOK. RES 1	
755	02BF					BOTSCR. RES 1	
756							
757							
758	02C0					PCOLR0. RES 1	
759	02C1					PCOLR1. RES 1	
760	02C2					PCOLR2. RES 1	
761	02C3					PCOLR3. RES 1	
762	02C4					COLOR0. RES 1	
763	02C5					COLOR1. RES 1	
764	02C6					COLOR2. RES 1	
765	02C7					COLOR3. RES 1	
766	02C8					COLOR4. RES 1	
767							
768							
769	02C9					PARMBL. = *	
770	02C9					RUNADR. RES 2	
771	02CB					HUSED. RES 2	
772	02CD					ZHUSED. RES 2	
773	02CF					OLDPAR. = *	
774	02CF					GBYTEA. RES 2	
775	02D1					LOADAD. RES 2	
776	02D3					ZLOADA. RES 2	
777	02D5					DSCTLN. RES 2	
778	02D7					ACMISR. RES 2	
779	02D9					KRPDEL. RES 1	
780	02DA					KEYREP. RES 1	
781	02DB					NOCLIK. RES 1	
782	02DC					HELPFG. RES 1	
783	02DD					DMASAV. RES 1	
784	02DE					PBPNL. RES 1	
785	02DF					PBUFSZ. RES 1	
786							
787							
788							
789							
790	02E0					RES 4	
791							
792	02E4					RAMSIZ. RES 1	
793	02E5					MEMTOP. RES 2	
794	02E7					MEMLO. RES 2	
795	02E9					HNDL0D. RES 1	
796	02EA					DVSTAT. RES 4	
797	02EE					CBAUDL. RES 1	
798	02EF					CBAUDH. RES 1	

ERR-LINE ADDR B1 B2 B3 B4

SWEET16 DATA BASE

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794					
800	02F0	CRSINH	RES	1	;CURSOR INHIBIT (00 = CURSOR ON)
801	02F1	KEYDEL	RES	1	;KEY DELAY
802	02F2	CH1	RES	1	
803					
804	02F3	CHACT	RES	1	;CHACTL REGISTER RAM
805	02F4	CHBAS	RES	1	;CHBAS REGISTER RAM
806					
807	02F5	NEWROW	RES	1	;POINT DRAW GOES TO
808	02F6	NEWCOL	RES	2	
809	02F8	ROWINC	RES	1	;DRAW LINE INCREMENTS
810	02F9	COLINC	RES	1	
811					
812	02FA	CHAR	RES	1	
813	02FB	ATACHR	RES	1	;ATASCII CHARACTER
814	02FC	CH	RES	1	;GLOBAL VARIABLE FOR KEYBOARD
815	02FD	FILDAT	RES	1	;RIGHT FILL DATA (DRAW)
816	02FE	DSPLFLG	RES	1	;DISPLAY FLAG ; DISPLAY CNTLS IF NON-ZERO
817	02FF	SSFLAG	RES	1	;START/STOP FLAG FOR PAGING (CNTL 1) CLEARE
818					
819					
820					
821					
822					
823					
824					
825					
826					
PAGE THREE RAM ASSIGNMENTS					
827	0300	DCB	RES	1	;DEVICE CONTROL BLOCK
828	0300	DDEVIC	RES	1	;PERIPHERAL UNIT 1 BUS I.D. NUMBER
829	0301	DUNIT	RES	1	;UNIT NUMBER
830	0302	DCOMND	RES	1	;BUS COMMAND
831	0303	DSTATS	RES	1	;COMMAND TYPE/STATUS RETURN
832	0304	DBUFLO	RES	1	;DATA BUFFER POINTER LOW BYTE
833	0305	DBUFHI	RES	1	
834	0306	DTIMLO	RES	1	;DEVICE TIME OUT IN 1 SECOND UNITS
835	0307	DUNUSE	RES	1	;UNUSED BYTE
836	0308	DBYTLO	RES	1	;NUMBER OF BYTES TO BE TRANSFERRED LOW BYTE
837	0309	DBYTHI	RES	1	
838	030A	DAUX1	RES	1	;COMMAND AUXILIARY BYTE 1
839	030B	DAUX2	RES	1	
840					
841	030C	TIMER1	RES	2	;INITIAL TIMER VALUE
842	030E	JMPERS	RES	1	;JUMPER OPTIONS
843	030F	CASFLG	RES	1	;CASSETTE MODE WHEN SET
844	0310	TIMER2	RES	2	;FINAL TIMER VALUE THESE TWO TIMER VALUES
845					;ARE USED TO COMPUTE INTERVAL FOR BAUD RATE
846	0312	TEMP1	RES	2	;TEMPORARY STORAGE REGISTER (CASSH & HNDLOD)
847	0313	TEMP2	RES	2	= TEMP1+1
848	0314	PTIMOT	RES	1	;PRINTER TIMEOUT
849	0315	TEMP3	RES	1	;TEMPORARY STORAGE REGISTER
850	0316	BAVIO	RES	1	;SAVE SERIAL IN DATA PORT
851	0317	TIMFLG	RES	1	;TIME OUT FLAG FOR BAUD RATE CORRECTION
852	0318	STACKP	RES	1	;SIO STACK POINTER SAVE CELL

ERR LINE ADDR S1 KC S3 S4

SHEET 15 DATA BASE

PAGE 8

853	0319				
854		7STAT	RES	1	TEMPORARY STATUS HOLDER
855					
856					
857	021A	HATABS	RES	MAXDEV+2	HANDLER ADDRESS TABLE
858	0230	PUPST1	RES	1	POWER-UP
859	0230	PUPST2	RES	1	VALIDATION
860	003F	PUPST3	RES	1	BYTES
861					
862		; NOTE THE ENTIRE IOCBL DEFINITIONS HAVE BEEN MODIFIED			
863					
864		IOCB	ORG	*	I/O CONTROL BLOCKS
865	0340	ICID	RES	1	HANDLER INDEX NUMBER (FF = IOCBL FREE)
866	0341	ICNO	RES	1	DEVICE NUMBER (DRIVE NUMBER)
867	0343	ICCOM	RES	1	COMMAND CODE
868	0343	ICSTA	RES	1	STATUS OF LAST IOCBL ACTION
869	0344	ICBAL	RES	1	BUFFER ADDRESS LOW BYTE
870	0345	ICBAH	RES	1	
871	0346	ICPTL	RES	1	(PUT BYTE ROUTINE ADDRESS -)
872	0347	ICPTH	RES	1	
873	0348	ICBLL	RES	1	(BUFFER LENGTH LOW BYTE
874	0349	ICBLH	RES	1	
875	034A	ICAX1	RES	1	(AUXILIARY INFORMATION FIRST BYTE
876	034B	ICAX2	RES	1	
877	034C	ICSPR	RES	4	(FOUR WORK BYTES
878					
879	0350		RES	MAXIOC-IOCBSZ	
880					
881	03C0	PRNBUF	RES	40	; PRINTER BUFFER
882					
883	03E3	SUPERF	RES	1	; SCREEN EDITOR SUPER FUNCTION
884	03E9	CKEY	RES	1	; GAME START ON PUP.
885	03EA	CASSBT	RES	1	; CASSETTE BOOT FLAG
886	03EB	MINTLK	RES	1	; ACMI MODULE INTERLOCK
887	03EC	GINTLK	RES	1	; GAME CART INTERLOCK
888					
889		; HERE TO END OF PAGE 3 NOT CLEARED ON RESET			
890					
891	03E9	ACMVAR	RES	14	; ACMI MODULE HANDLER VARIABLES
892	03F8	CHLINK	RES	2	
893					
894					
895	03F7	V\$FLAG	=	ACMVAR+10	; *** TEMPORARY LOCATION ***
896	03F8	KEYDIS	=	V\$FLAG+1	; *** TEMPORARY LOCATION ***
897	03F9	FINE	=	KEYDIS+1	; *** TEMPORARY LOCATION ***
898					
899					
900					
901					
902					
903		PAGE FOUR RAM ASSIGNMENTS			
904					
905	03F0	CASBUF	RES	131	; CASSETTE BUFFER
906					

CR8 LINE AD0R B1 B2 B3 B4

SWEET16 DATA BASE

PAGE 10

907 / USER AREA STARTS HERE AND GOES TO END OF PAGE FIVE  
908 0480 USAREA RES 128 SPARE

909

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PAGE FIVE RAM ASSIGNMENTS

917

PAGE FIVE IS RESERVED AS A USER WORK SPACE

918

NOTE SEE FLOATING POINT SUBROUTINE AREA FOR PAGE FIVE CELLS

919

920

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923

PAGE SIX RAM ASSIGNMENTS

924

PAGE SIX IS RESERVED AS A USER'S USER WORK SPACE

925

926

END

927 0500

ASSEMBLY ERRORS = 0

## SYMBOL TABLE

ABUFNT	0010	ACK	0041	ACHTSR	02D1	ACMVAR	03E0
ADIEES	0064	ALLPDT	0208	AMFLAQ	07FF	AMINIT	07F6
AMISRA	07FA	ANNAME	07F9	ANVTAD	07EA	ANTIC	D400
APPEND	0001	APPNHI	000E	ATACHR	02FB	ATTRACT	0040
AUDC1	D201	AUDC2	D203	AUDC3	D205	AUDC4	D207
AUDC5	D208	AUDF1	D200	AUDF2	D202	AUDF3	D204
AUDF4	D205	B192HI	0000	B192LD	0028	B600HI	0005
B600LO	00CC	BAD10C	0086	BADM00	0091	BEEP FN	000A
BEERFF	0008	BEEPNN	001E	BEEPNP	0019	BFENHI	0035
BFENLO	0034	BJTMSK	006E	BLIM	028A	BOOTAD	0242
BOOTP	0009	BOTSCR	028F	BPTR	003D	BRKABT	0080
BRKAY	0011	BRKKY	0236	BUFADR	0015	BUFCNT	006B
BUFRFL	0038	BUFRHI	0033	BUFLR0	0032	BUFSTR	006C
CART	BFFC	CARTAD	BFFE	CARTCS	BFFA	CARTFG	BFFD
CASBUF	03FD	CASET	0060	CASF1G	030F	CASINI	0002
CASSET	00EA	CASSET	0043	CAUX1	023C	CAUX2	023D
CB4AUDH	02EF	CAUDL	02EE	CCOMND	023B	CDEVIC	023A
CDTMA1	0226	CDTMA2	0228	CDTMF3	022A	CDTMF4	022C
CDTMF5	022E	CDTMV1	0218	CDTMV2	021A	CDTMV3	021C
CDTMV4	021E	CDTMV5	0220	CH	02FC	CH1	02F2
CHACT	02F3	CHACTL	D401	CHAR	02FA	CHBAS	02F4
CHASE	D409	CHKERR	008F	CHKLOC	4000	CHKSNT	003B
CHKSNT	0031	CHLINK	03FB	CIOCHR	002F	CKEY	03E9
CLOSE	000C	CLS	007D	CNTL1	009F	CNTLF2	0084
COLAC	0072	COLBK	D01A	COLCRS	0055	COLDST	0244
COLINC	02F9	COLDRO	02C4	COLOR1	02C5	COLOR2	02C6
COLDRG	02C7	COLDR4	02CB	COLPFO	D016	COLPF1	D017
COLPF2	D018	COLPF3	D019	COLPM0	D012	COLPM1	D013
COLPM2	D014	COLPM3	D015	COLRSH	004F	COMPLT	0043
CONSOL	001F	COUNTR	007E	CR	0096	CRETRI	000D
DRETRY	029C	CRITIC	0042	CRSINH	02F0	CRSROR	008D
CT14	0000	CTIMHI	0000	CTIMLD	0002	DAUX1	030A
DAUX2	0308	DBSECT	0241	DBUFHI	0305	DBUFLO	0304
DBUFsz	0014	DBYTHI	0309	DBYTL0	0308	DCB	0300
BCQMD	0302	DDEVIC	0300	DELETE	0021	DELTAC	0077
DELTAR	0076	DERROR	0090	DFLAGS	0240	DINDEX	0057
DIRECT	0002	DISK	0044	DISKID	0031	DISPLAY	0053
DLISTH	D403	DLISTL	D402	DMACTL	D400	DMASAV	02DD
DMASK	02A0	DNACK	008B	DOMCHR	00E0	DOSINI	000C
DDSMEC	000A	DOUBLE	0044	DRAWLN	0011	DRETRI	0001
DRETRY	02BD	DRKMSK	004E	DSCTLN	02D5	DBCTSZ	0080
DSKFMS	0018	DSKTIM	0246	DSKUTL	001A	DSPFLG	02FE
DSTAT	004C	DSTATS	0303	DT1	00FA	DTA	00FC
DTIMLO	0306	DUNIT	0301	DUNUSE	0307	DVSTAT	02EA
ENDPT	0074	ENTVEC	002C	EOFERR	0088	EDL	009B
EDT	00FE	ERRFLG	023F	ERROR	0045	ESCFLG	02A2
FALSE	0000	EOF	003F	FILDAT	02FD	FILFLG	02B7
FILLIN	0012	FINE	03F9	FKDEF	0060	FMSZPQ	0043
FNCNOT	0092	FOMAT	0021	FORMAT	0022	FREQ	0040
FRMADR	0058	FRMERR	008C	FTYPE	003E	GBYTEA	02CF
GETCHR	0007	GETDAT	0040	GETREC	0005	GINTLK	03EC
GPRIOR	026F	GRACTL	D01D	GRAFM	D011	GRAFPO	D00D

GRAFFI	D00E	GRAFFI	D00F	GRAFFI	D010	HATABE	D01A
HDR	D0F8	HELP	D0E1	HELPFG	D2DC	HIBYTE	D2E8
HITCLR	D0E1	HITONE	D005	HIBUED	D2E8	HNDLDD	D2E9
HOLD1	D051	HOLD2	D29F	HOLDEI	D29D	HOLD4	D2E4
HOLDCH	D07C	HPOSM0	D004	HPOSM1	D005	HPOSM2	D006
HPOSP3	D007	HPOSP0	D000	HPOSP1	D001	HPOSP2	D002
ICAX2	D348	ICAXZ2	D028	ICBAH	D345	ICBAHZ	D025
ICBAL	D344	ICBALZ	D024	ICBLH	D349	ICBLHZ	D029
ICBL	D348	ICBLZ	D028	ICCOM	D342	ICCOMT	D017
ICCOMZ	D022	ICDNO	D341	ICDNOZ	D021	ICHID	D340
ICHIZD	D020	ICIDNO	D02E	ICPTH	D347	ICPTHZ	D027
ICPTL	D346	ICPTLZ	D026	ICSPR	D34C	ICSPRZ	D02C
ICSTA	D343	ICSTAZ	D023	IMASK	D28B	INIMLH	D007
INIMLL	D000	INSLCR	D020	INSDAT	D07D	INTABS	D200
INTCHR	D0CC	INTEMP	D22D	INTZBB	D010	INVFLG	D2B6
IOCDB	D340	IOC BAS	D020	IOCBSZ	D010	IOCFCRE	D0FF
IRQEN	D20E	IRQST	D20E	JMPERS	D30E	JVECK	D28C
KBCODE	D209	KBD	D048	KEYDEF	D079	KEYDEL	D2F1
KEYDIS	D3F8	KEYREP	D2DA	KRPDEL	D2D9	LCOUNT	D233
LENDE	D002	LINBUF	D247	LMARGIN	D052	LNBUG	D001
LNFLO	D000	LNIRQ	D033	LNNMI	D351	LOADAD	D2D1
LOCKFL	D023	LOGCOL	D063	LOGMAP	D282	LOTONE	D007
LRENH	D234	LPENV	D235	LTEMP	D036	MOPF	D000
MOPL	D008	M1PF	D001	M1PL	D009	M2PF	D002
M2PL	D00A	M3PF	D003	M3PL	D00B	MAXDEV	D021
MAXIDC	D080	MEMLO	D2E7	MEMORY	M 0000	MEMTOP	D2E5
MINTLK	D3EB	MLTTMP	D066	MOTRGD	D034	MOTRST	D03C
MIMDMD	D010	NACK	D04E	NARG	D000	NBUFSZ	D028
NCOMHI	D03C	NCOMLO	D034	NEWADR	D28E	NEWCOL	D2F6
NEWROW	D2F5	NGFLAG	D001	NMIEN	D40E	NMIRES	D40F
NMIST	D40F	NOCKSM	D03C	NOCLIK	D2DB	NODAT	D000
NONDEV	D082	NORMAL	D04E	NOTE	D026	NOTOPN	D085
NVALID	D084	OLDDR	D05E	OLDDR	D05D	OLDCOL	D05B
OLDPAR	D2CF	OLDROW	D05A	OPEN	D003	OPNIN	D004
OPNINO	D00C	OPNOT	D008	OPNTPM	D066	OPRRUN	D08E
OPPF	D004	POPL	D00C	P1PF	D005	P1PL	D00D
P2PF	D006	P2PL	D00E	P3PF	D007	P3PL	D00F
PACTL	D302	PADDL0	D270	PADDL1	D271	PADDL2	D272
PADDL3	D273	PADDL4	D274	PADDL5	D275	PADDL6	D276
PADDL7	D277	PAL	D014	PALNTS	D062	PARMBL	D2C9
PBCTL	D303	PBNPT	D2DE	PBUFSZ	D2DF	PCOLRO	D2C0
PCOLR1	D2C1	PCOLR2	D2C2	PCOLR3	D2C3	PDEVN	D040
RENH	D40C	PENV	D40D	PIA	D300	PLOT	D050
PMBASE	D407	POINT	D025	POKEY	D200	POKMSK	D010
PORTA	D300	PORTB	D301	POTO	D200	POT1	D201
POT2	D202	POT3	D203	POT4	D204	POT5	D205
POT6	D206	POT7	D207	POTCO	D20B	PRINTR	D050
PRIOR	D01B	PRNUF	D3C0	PRVDPN	D081	PTIMOT	D314
PTRIG0	D27C	PTRIG1	D27D	PTRIG2	D27E	PTRIG3	D27F
PTRIG4	D280	PTRIG5	D281	PTRIG6	D282	PTRIG7	D283
PUPBL1	D23D	PUPBT2	D03E	PUPBT3	D03F	PUPVL1	D05C
PUPVL2	D093	PUPVL3	D025	PUTCHR	D000	PUTDAT	D0B0
PUTREC	D007	PUTSEC	D050	RAMLO	D004	RAMSIZ	D2E4

RANDVS	0001	RANTDP	006A	RANDOH	020A	RONLY	0087
READ	0052	RECLEM	0243	RECVIN	0001	REDGE	0027
RELADR	0238	RENAMR	0020	RIRGHI	0000	RIRGLN	0078
RIRGLP	0054	RLEADN	0240	RLEADP	01E0	RMARON	0053
RDNAC	0070	ROWCRS	0054	ROWINC	02F8	RSIRGN	000A
RSIRGP	0006	RTCLDR	0012	RUNADR	02C9	SAVADR	0068
SAVIO	0316	SAVMSC	0058	SBUFSE2	001D	SCREDT	0045
SDFLQ	0288	SCRMEM	0093	SDLSTH	0231	SDLSTL	0230
SDNCTL	022F	SERIN	020D	SEROUT	020D	SEX	0000
SHFAMT	005F	SHFLOK	02BE	SIDWAY	0053	SIZEM	000C
SIZEPO	0008	SIZEP1	0009	SIZEP2	000A	SIZEP3	0008
SMCTL	020F	SKRES	020A	SKSTAT	020F	SOUNDR	0041
SPACE	0020	SPECIL	000E	SRTIMR	022B	SSFLAG	02FF
SSMCTL	0232	STACK	5 0000	STACKP	0318	STATC	0053
STATIS	000D	STATUS	0030	STICKO	0278	STICK1	0279
STICK2	027A	STICK3	027B	STIMER	0209	STORG	5000
STRIGO	0284	STRIG1	0285	STRIG2	0286	STRIG3	0287
SURTMP	029E	SUCCES	0001	SUPERF	03E8	SWPFLG	007B
TABMAP	02A3	TEMP	023E	TEMP1	0312	TEMP2	0313
TEMP3	0315	TIMER1	030C	TIMER2	0310	TIMFLG	0317
TIMOUT	008A	TINDEX	0293	TMPCHR	0050	TMPCOL	02B9
TMPLAT	02A1	TMPROW	02B8	TOADR	0066	TONE1	0002
TONE2	0001	TRAMSZ	0006	TRIGO	0010	TRIG1	0011
TRIG2	0012	TRIG3	0013	TRNRCD	0089	TRUE	0001
TSTAT	0319	TSTDAT	0007	TXTCOL	0291	TXTMSC	0294
TXTOLD	0296	TXTROW	0290	UNLOCK	0024	USAREA	0480
VBREAK	0206	VCOUNT	D40B	VDELAY	001C	VDSLST	0200
VTIMRQ	0216	VINTER	0204	VKEYBD	0208	VPRCED	0202
VSCROL	D405	VSERIN	020A	VSEROC	020E	VSEROR	020C
VSFLAG	03F7	VTIMR1	0210	VTIMR2	0212	VTIMR4	0214
VBBLKD	0224	VVBLKI	0222	WARMST	0008	WIRGHI	0000
WIRGLN	00B4	WIRGLP	0096	WLEADN	0480	WLEADP	03C0
WMODE	0289	WRITE	0057	WRONLY	0083	WSIRGN	000F
WSIRGP	000D	WSYNC	D40A	XMTDN	003A	ZCHAIN	004A
ZHIUSE	02CD	ZIOCB	0020	ZLOADA	02D3		